

# Effect of Time on Growth

Iron oxide Catalyst with  $\text{CO}:\text{H}_2::4:1$  at 550 C

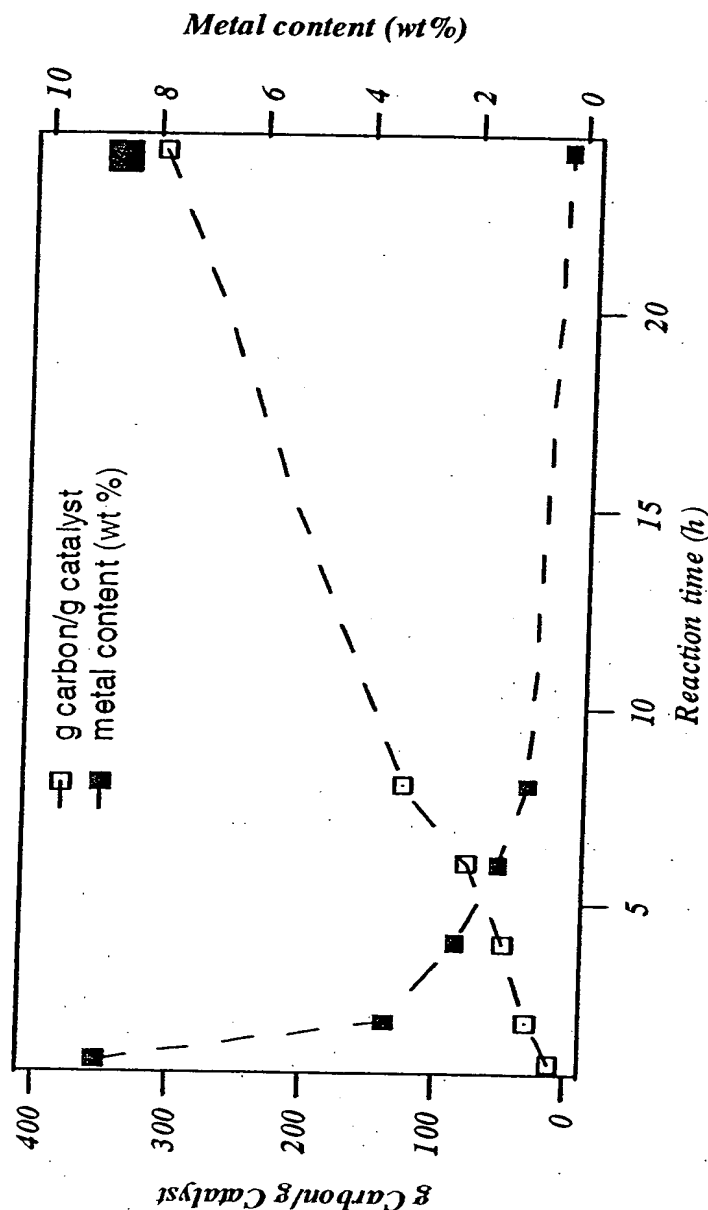


FIG. 1

GC data shows, the catalyst particle is still active even after 24h of reaction time.

Iron:Nickel Catalyst with  $C_2H_4:H_2::1:4$  at 550 C

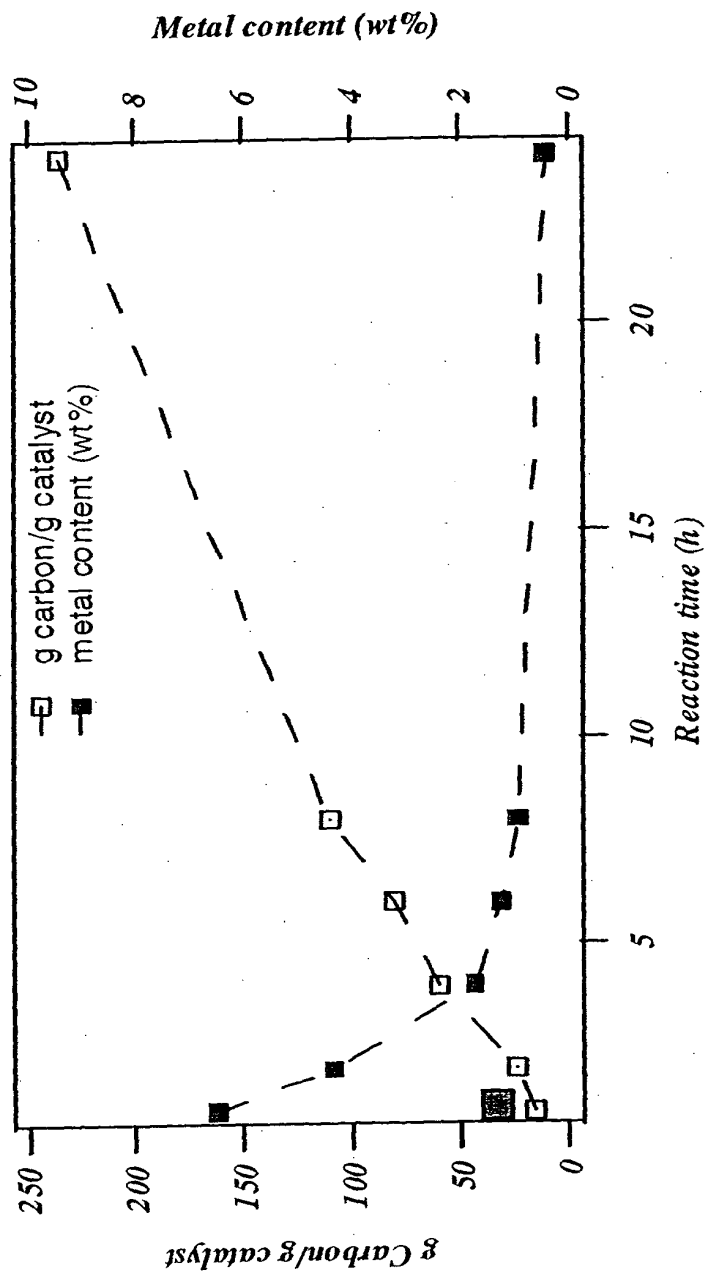


Fig. 2

In both catalyst system, we reach 99 % of C in 8 h reaction time.

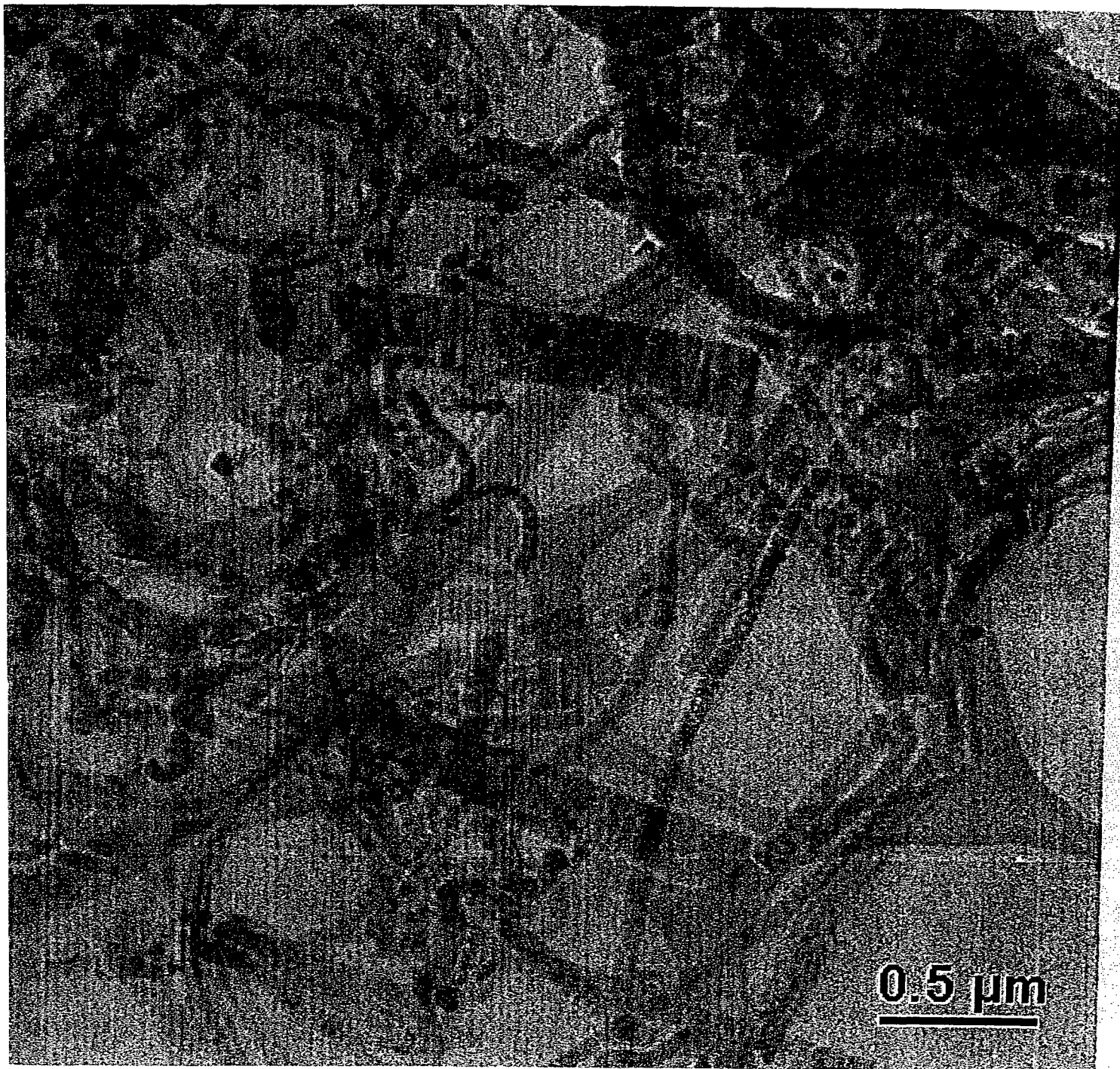


FIG. 3

BEST AVAILABLE COPY

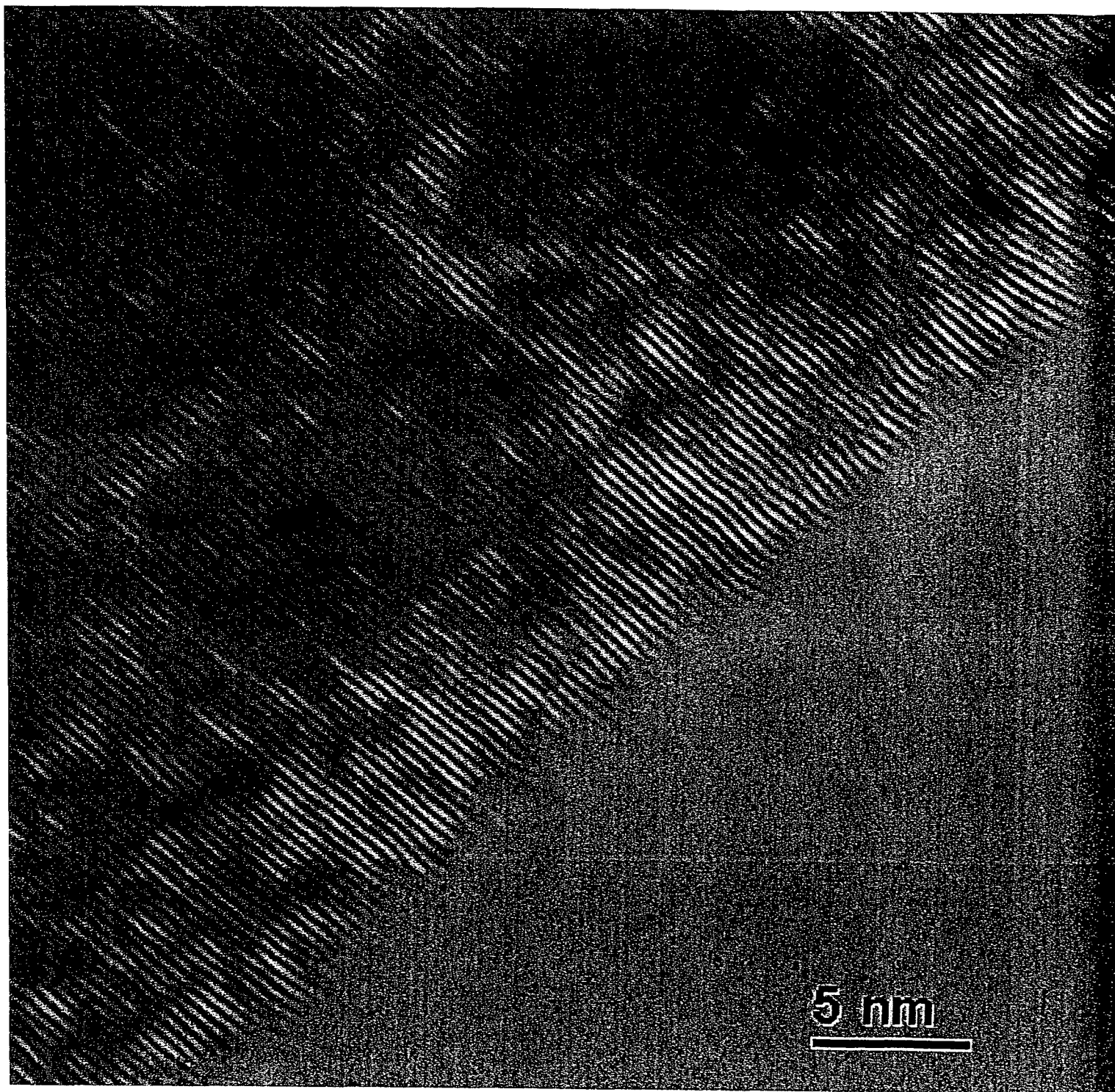


FIG. 4

BEST AVAILABLE COPY

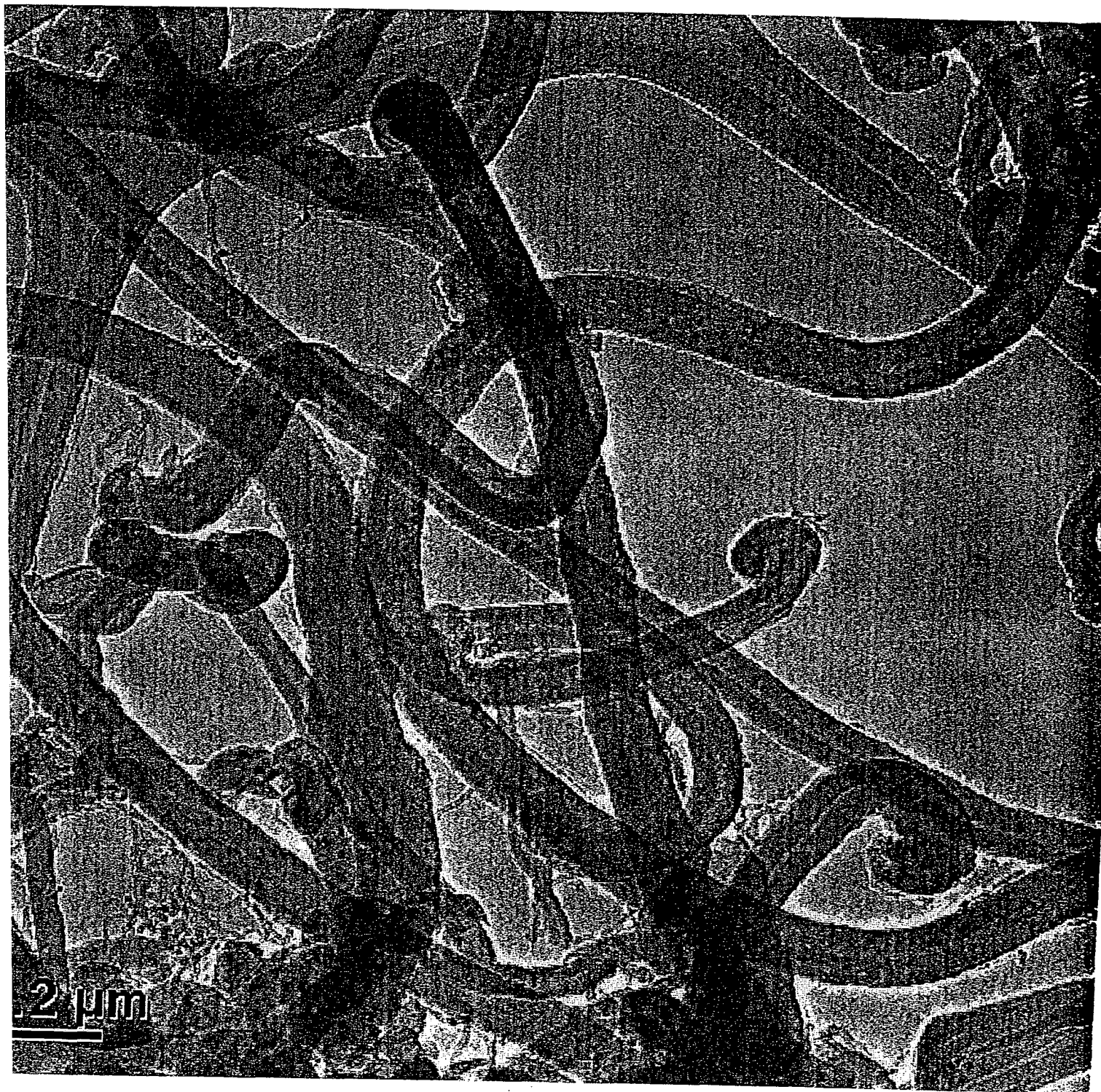


FIG. 5

BEST AVAILABLE COPY



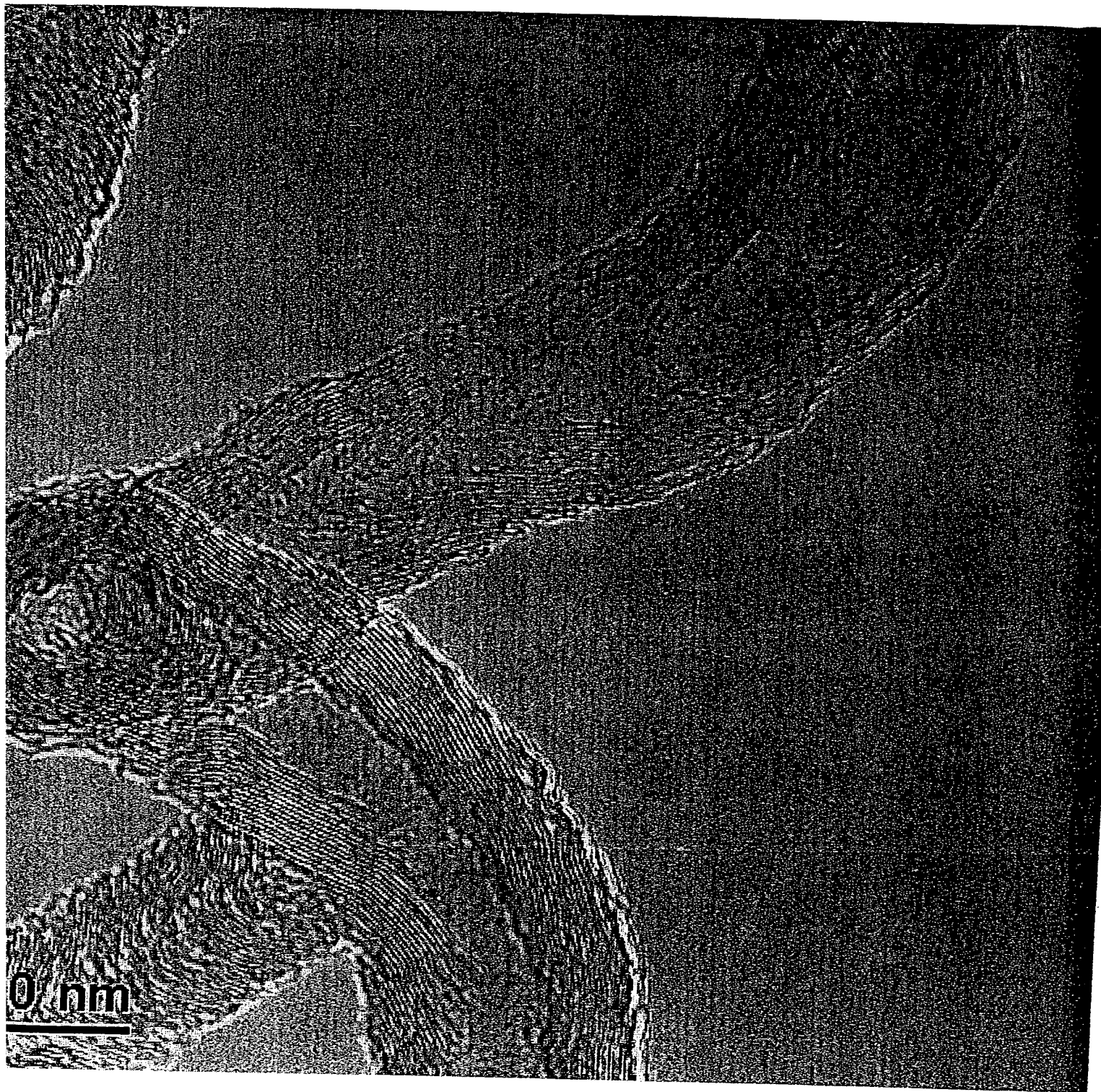


FIG. 6

BEST AVAILABLE COPY

CO/H<sub>2</sub> @ 4:1 rx

# Platelet Morphology

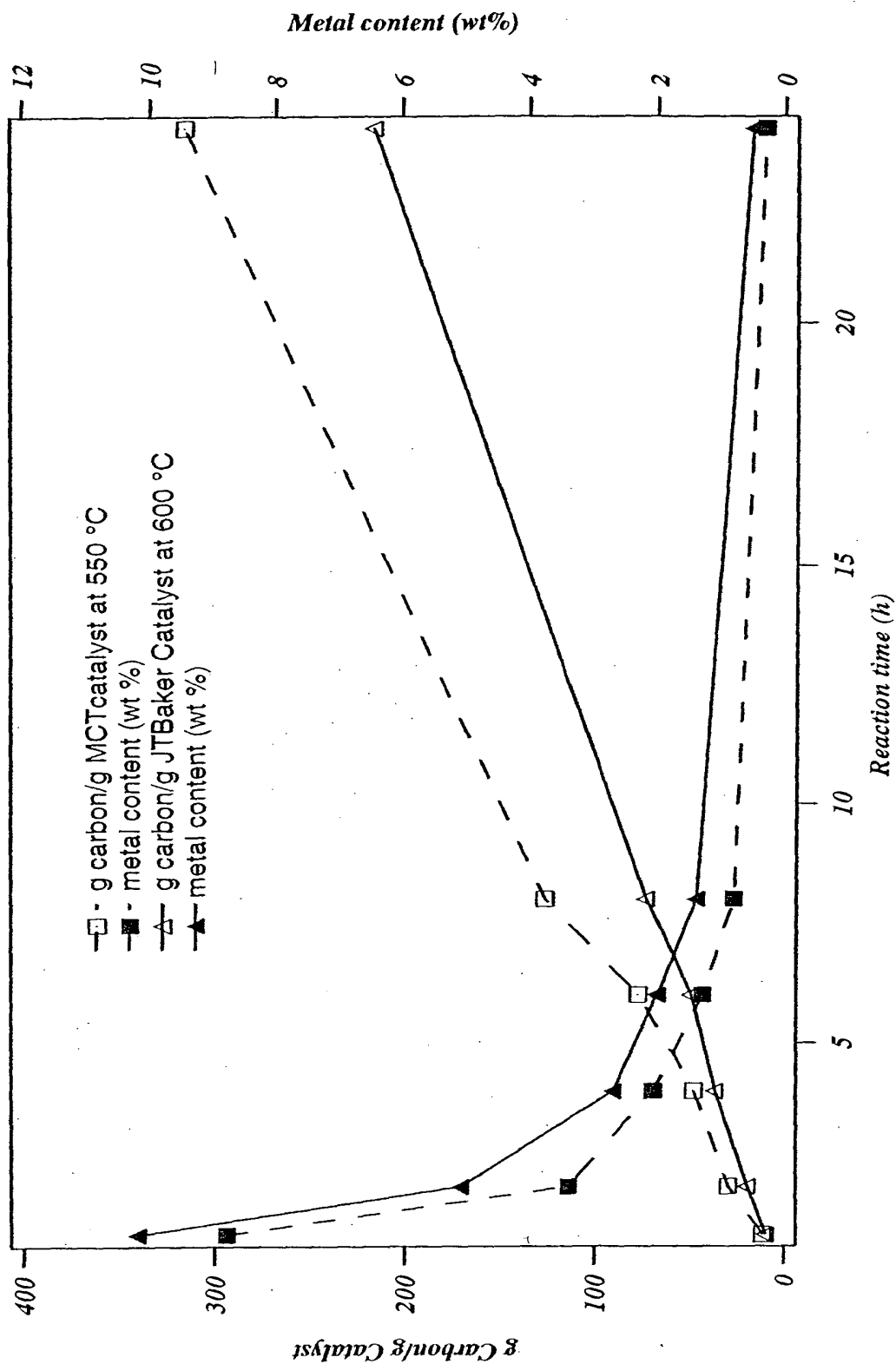


FIG-7

✓ Ni, Co  
 $C_2H_4/H_2$  @ 1:4 ratio

# Tubular Morphology

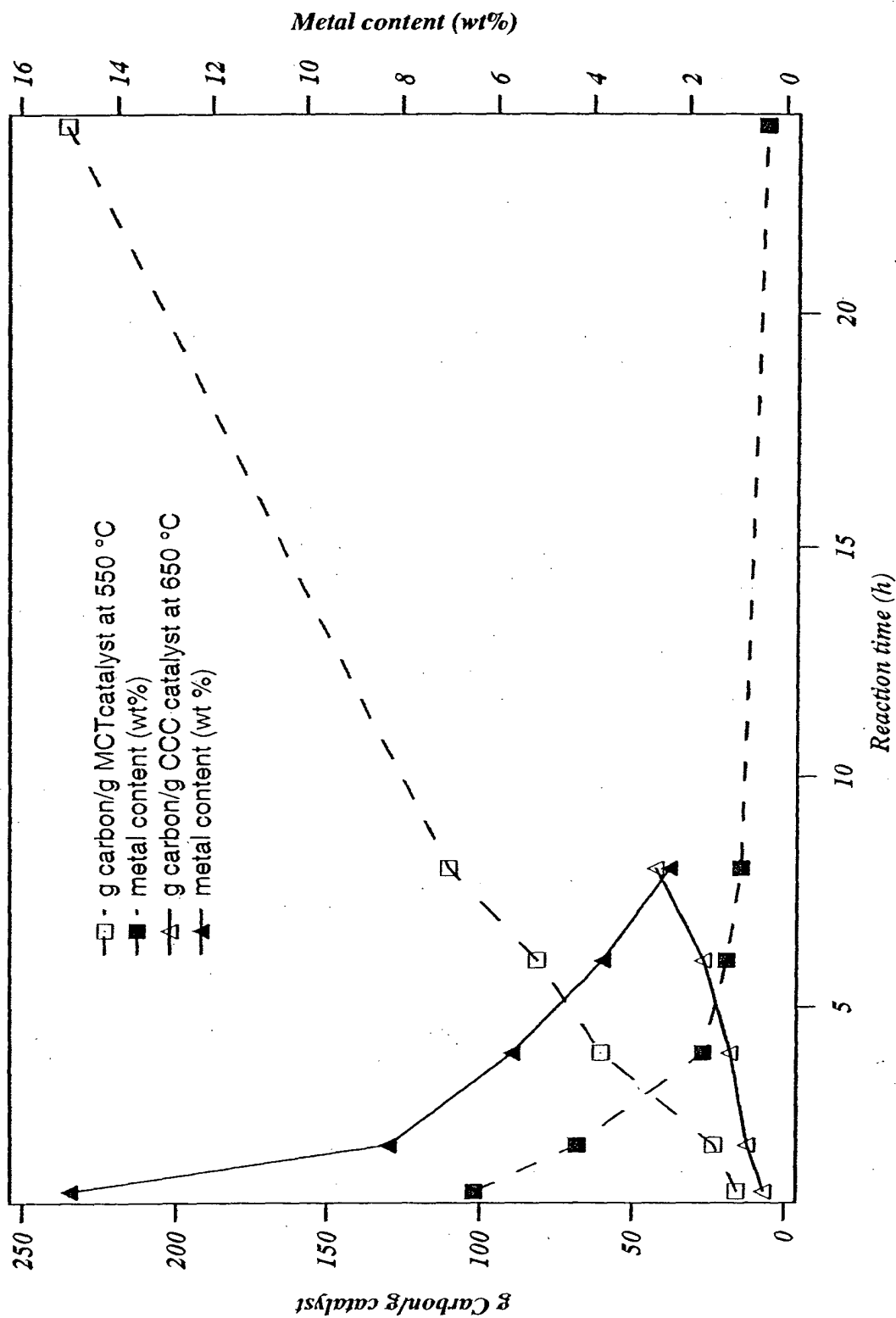


FIG. 8